
title: Installation

Get started with MEV-Boost installation with this guide. Whether you are looking to install it on a machine with the beacon client or multiple beacon clients, this guide will assist you in setting it up smoothly.

Prerequisites

- For a comprehensive guide on preparing for the merge, refer to [Rémy Roy's guide](#).
- Ensure you have [Go 1.18+](#) installed for source-based installations.

Installation Methods

Using Binaries

For convenience, each release includes binaries suitable for Linux, Windows, and macOS (both amd and arm). Find the latest releases [here](#).

From Source

Build and install with `go install`

The easiest way to build and install MEV-Boost from sources is to use `go install`. You can simply execute the `go install` command as shown below:

```
bash go install github.com/flashbots/mev-boost@latest mev-boost -help
```

This would install the latest version of MEV-Boost in your `$GOPATH/bin` directory. You can then run the `mev-boost` command from anywhere in your terminal.

If you want to install a specific version, you can use the `@` syntax:

```
bash go install github.com/flashbots/mev-boost@VERSION
```

Simply look up the specific version you want to install in the [releases](#) page.

Clone and Build

You can also clone the repository and build the software yourself without using `go install`.

1. Clone the repository:

```
bash git clone https://github.com/flashbots/mev-boost.git cd mev-boost
```

1. (Optional) To build a specific release, refer to the available [releases](#) and checkout the desired tag:

```
bash git checkout tags/YOUR_VERSION
```

1. Build the software:

```
bash make build
```

1. If you experience issues, use the portable build:

```
bash make build-portable
```

1. Verify your installation:

```
bash ./mev-boost -help
```

From Docker Image

Flashbots provides maintained Docker images for MEV-Boost.

1. [Install Docker Engine](#).
2. Pull the latest MEV-Boost image:

```
bash docker pull flashbots/mev-boost:latest
```

Or pull the portable version:

```
bash docker pull flashbots/mev-boost:latest-portable
```

1. Run the Docker image:

```
bash docker run flashbots/mev-boost -help
```

Systemd Configuration

To keep MEV-Boost running as a service, configure systemd by creating the systemd config file `/etc/systemd/system/mev-boost.service`.

Below is an example of a config file:

```
``ini [Unit] Description=mev-boost Wants=network-online.target After=network-online.target
```

```
[Service] User=mev-boost Group=mev-boost WorkingDirectory=/home/mev-boost Type=simple Restart=always  
RestartSec=5 ExecStart=/home/mev-boost/bin/mev-boost \ -mainnet \ -relay-check \ -relays YOUR_RELAY_CHOICE
```

```
[Install] WantedBy=multi-user.target ``
```

Troubleshooting

If you encounter an error: "[SIGILL: illegal instruction](#)", you'll need to use the portable build.

There are three ways to install the portable build:

1. Use the [portable Docker image](#).
2. Build the portable version from source:

```
bash make build-portable
```

1. Using go install:

```
bash CGO_CFLAGS="-O -D__BLST_PORTABLE__" go install github.com/flashbots/mev-boost@latest
```